

C L A I M S

1) Transfer device with a cylinder for reversibly moving
5 an object (3) in horizontal or inclined translation over a
travel distance substantially twice as large as that of said
cylinder (1), characterised in that it includes a double-acting
cylinder (1) the rod (11) of which includes, at its end, means
for returning by 180° (12) on which symmetrically pass at least
10 two cable elements, one for the extension (4) and another one
for the restoring (5), the latter being made integral by one
end (40, 50) with the support (2) of said cylinder (1) and by
the other end (41, 51) with said object (3), so that the
outward movement of said rod (11) causes said object (3) to
15 move in the same direction through the extending cable element
(4), and also drives said restoring cable element (5), while
the inward movement of said rod (11) causes said object (3) to
move in the opposite direction through said restoring cable
element (5) and also drives said extending cable element (4).

20 2) Device according to claim 1, characterised in that the
cable elements (4, 5) consist of chains, whereas the returning
means (12) consist of pulleys mounted on a shaft arranged
transversally to the end of the rod (11) of the cylinder (1).

25 3) Device according to claim 2, characterised in that the
shaft arranged transversally to the end of the rod (11) of the
cylinder (1) is pivotally mounted on a movable bearing block
(7) slidably connected to the object (3).

30 4) Device according to any of the preceding claims,
characterised in that the support consists of a ramp (2)
capable of tilting on the chassis (60) of a vehicle (6),
whereas the object to be moved consists of a platform (3)
capable of sliding along said ramp (2).

35 5. Device according to claim 4, characterised in that the
platform (3) is slidably mounted on the ramp (2) through at
least one sliding block (8) capable of sliding along said ramp

and to which the outermost front portion (30) of said platform (3) is connected by means of a pivot (80) with a transversal axis, whereas said ramp (2) is mounted on the chassis (60) in a tilting way about a transversal axis (61) and under the action
5 of a cylinder (62).

6) Device according to claim 5, characterised in that it includes two sliding blocks (8), each of which is slidably mounted on a side of the ramp (2), and bears a pivot for connection to the platform (3).